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EXAMINER

TRAN, TRANG U

ART UNIT	PAPER NUMBER
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2614

3

DATE MAILED: 03/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/935,451

Applicant(s)

YANG ET AL.

Examiner

Trang U. Tran

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 5, 7-11, 15 and 17-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Saito (Publication No. US 2002/0030711 A1).

In considering claim 1, Saito discloses all the claimed subject matter, note 1) the claimed a method for displaying information on a display device in an entertainment system is met by the digital TV broadcast receiver (Fig. 1, page 1, [0025] to page 2, [0043]), 2) the claimed selecting a key corresponding to a broadcast channel is met by the channel change request for changing the channel from the program viewed to another channel (for example, CH4) by pressing the ten-keys reference numeral 803 for entering the channel number of the remote controller (Figs. 3-8, page 3, [0050] and page 3, [0056] to page 4, [0062]), 3) the claimed displaying a show associated with the channel is met by displaying CH4 at time t1, in response to a channel change request for changing the channel from the program viewed and listened at time t0 to a channel CH4 (Figs. 3-8, page 3, [0056] to page 4, [0062]), and 4) the claimed simultaneously displaying a status of the show for a predetermined period of time is met by the program

information such as the CH (channel) number and a program name is displayed in the bottom area of the screen at times t1, t2 and t3, and when the program information is fixedly displayed, after the program name is displayed for a predetermined time, the program contents are displayed, the predetermined time changes with the selection item set in "change time" on the program information display setting screen (Figs. 3-8, page 3, [0056] to page 4, [0062]).

In considering claim 5, the claimed wherein the status of the show comprises a title of the show is met by the program information such as the CH (channel) number and a program name is displayed in the bottom area of the screen at times t1, t2 and t3, and when the program information is fixedly displayed, after the program name is displayed for a predetermined time, the program contents are displayed, the predetermined time changes with the selection item set in "change time" on the program information display setting screen (Figs. 3-8, page 3, [0056] to page 4, [0062]).

In considering claim 7, the claimed further comprising configuring the entertainment system to display the status of the show is met by the program information setting screen which has various setting for the program information such as the contents of the program information and a display method (Fig. 9, page 4, [0042]-[0076]).

In considering claim 8, Saito discloses all the claimed subject matter, note 1) the claimed wherein configuring the entertainment system comprises: selecting display items corresponding to the status of the show is met by the reference numeral 909 which represents an area for setting the display contents, a user can select at least one

of a program name, program contents, and contents of program details (Fig. 9, page 4, [0070]), and 2) the claimed selecting a duration of the predetermined period of time is met by reference numeral 904 which represents an area for setting a predetermined time when the program information display is finished, i.e., a time to display cancellation (Fig. 9, page 4, [0067]-[0069]).

In considering claim 9, the claimed further configuring the entertainment system further comprises selecting display of the status of the show through the use of an input device is met by the program information setting screen can be displayed by selecting a menu item on an unrepresented menu screen displayed in response to depression of the menu button 804 show in Fig. 8 (Figs. 8 and 9, page 4, [0062]-[0076]).

In considering claim 10, the claimed further comprising displaying the status of the show at a predetermined interval during display of the show is met by the program information such as the CH (channel) number and a program name is displayed in the bottom area of the screen at times t1, t2 and t3 during display of image channel and when the program information is fixedly displayed, after the program name is displayed for a predetermined time, the program contents are displayed, the predetermined time changes with the selection item set in "change time" on the program information display setting screen (Figs. 3-8, page 3, [0056] to page 4, [0062]).

In considering claim 11, Saito discloses all the claimed subject matter, note 1) the claimed an entertainment system comprising: a display monitor is met by the digital TV broadcast receiver which includes the image display unit 113 (Fig. 1, page 1, [0025] to page 2, [0043]), 2) the claimed a broadcast receiver coupled to the display monitor,

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the broadcast receiver including a front-end unit capable of receiving programming data associated with a show broadcast for viewing on the display monitor is met by the receiver which includes the tuner unit 101 for receiving and processing the broadcast input signal to generated transport stream (TS) data is output to a descrambler 102 (Fig. 1, page 1, [0025] to page 2, [0041]), 3) the claimed a memory is met by the memory unit 116 which stores the EPG data supplied from the control unit 115 (Fig. 1, page 2, [000031]-[0032]), and 4) the claimed a central processing unit coupled to the memory, the central processing unit to execute software to display a show associated with a broadcast channel in response to selection of a key corresponding to the broadcast channel, said central processing unit to execute software to simultaneously displaying a status of the show for a predetermined period of time is met by the control unit 115 which includes a microprocessor, in response to an activation of the operation unit 118 having various operation switches such as a switch for selecting a channel and a switch from turning the power supply on, the control unit 115 reads each control program stored in the memory unit 116 and executes the read program (Figs. 3-9, page 2, [0042] and page 3, [0056] to page 4, [0062]).

Claim 15 is rejected for the same reason as discussed in claim 5.

In considering claim 17, the claimed wherein the central processing unit further executes software to configure the entertainment system to display the status of the show is met by the program information setting screen can be displayed by selecting a menu item on an unrepresented menu screen displayed in response to depression of the menu button 804 show in Fig. 8 (Figs. 8 and 9, page 4, [0062]-[0076]).

In considering claim 18, Saito discloses all the claimed subject matter, note 1) the claimed wherein configuring the entertainment system to display the status of the show comprises requesting selection of display items corresponding to the status of the show is met by the reference numeral 909 which represents an area for setting the display contents, a user can select at least one of a program name, program contents, and contents of program details (Fig. 9, page 4, [0070]), 2) the claimed requesting selection of a duration of the predetermined period of time is met by reference numeral 904 which represents an area for setting a predetermined time when the program information display is finished, i.e., a time to display cancellation (Fig. 9, page 4, [0067]-[0069]), and 3) the claimed receiving input corresponding to the selection of the display items and the selection of the predetermined period of time is met by the background of the selected item takes the same color as that of the screen background when the selection button 806 is depressed (Fig. 9, page 4, [0062]-[0070]).

In considering claim 19, Saito discloses all the claimed subject matter, note 1) the claimed wherein configuring the entertainment system further comprises requesting selection of the status of the show through the use of an input device is met by the program information setting screen can be displayed by selecting a menu item on an unrepresented menu screen displayed in response to depression of the menu button 804 show in Fig. 8 (Figs. 8 and 9, page 4, [0062]-[0076]), and 2) the claimed receiving input corresponding to the selection of the status of the show through the use of an input device is met by is met by the background of the selected item takes the same

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color as that of the screen background when the selection button 806 is depressed (Fig. 9, page 4, [0062]-[0070]).

In considering claim 20, the claimed wherein the central processing unit further executes software to display the status of the show at a predetermined interval during display of the show is met by the program information such as the CH (channel) number and a program name is displayed in the bottom area of the screen at times t1, t2 and t3 during display of image channel and when the program information is fixedly displayed, after the program name is displayed for a predetermined time, the program contents are displayed, the predetermined time changes with the selection item set in "change time" on the program information display setting screen (Figs. 3-8, page 3, [0056] to page 4, [0062]).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito (Publication No. US 2002/0030711 A1) in view of Schein et al. (US Patent No. 6,075,575).

In considering claim 2, Saito discloses all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed wherein the status of the show comprises a time remaining for broadcasting the show. Schein et al teach that

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clicking on rolling cylinder 24 automatically causes a Program InfoMenu 130 to pop up on a portion of the television screen 132 (Fig. 5B), Program InfoMenu 130 may allow the viewer to obtain more information (**1 hour 18 minutes remaining**) about the currently tuned program, move to program guide 104, move to contextual linked services, or exit InfoMenu 130 back to the television show (Fig. 5B, col. 10, lines 29-67). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the displaying a time remaining of the program as taught by Schein et al. into Saito' system in order to provide the viewer with a ability to view program information that are related to programs in the television schedule, so that the user can judge from such information whether a program is worth viewing or recording.

Claim 12 is rejected for the same reason as discussed in claim 2.

5. Claims 3-4, 6, 13-14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito (Publication No. US 2002/0030711 A1) in view of Mugura et al. (US Patent No. 6,111,614).

In considering claim 3, Saito discloses all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed wherein the status of the show comprises a start time of the show. Mugura et al teach that referring to Fig. 13, a user is able to readily view not only the broadcast audio and video, but also the electronic program guide of programming and the program description, a display information packet 1302 containing a description of the program broadcast may be displayed with the electronic program guide 1310, the display information packet 1302 also contains the program title 1350, the broadcast network identification 1352, the

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broadcast channel number 1354, **the start and end times of the program 1356**, and the program rating 1358 (Fig. 13, col. 8, line 57 to col. 9, line 18). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the displaying the start time of the program as taught by Mugura et al. into Saito' system in order to provide the viewer with a ability to view program information that are related to programs in the television schedule, so that the user can judge from such information whether a program is worth viewing or recording.

In considering claim 4, Saito discloses all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed wherein the status of the show comprises an end time of the show. Mugura et al teach that referring to Fig. 13, a user is able to readily view not only the broadcast audio and video, but also the electronic program guide of programming and the program description, a display information packet 1302 containing a description of the program broadcast may be displayed with the electronic program guide 1310, the display information packet 1302 also contains the program title 1350, the broadcast network identification 1352, the broadcast channel number 1354, **the start and end times of the program 1356**, and the program rating 1358 (Fig. 13, col. 8, line 57 to col. 9, line 18). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the displaying the end time of the program as taught by Mugura et al. into Saito' system in order to provide the viewer with a ability to view program information that are related to programs in the television schedule, so that the user can judge from such information whether a program is worth viewing or recording.

In considering claim 6, Saito discloses all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed wherein the status of the show comprises a rating of the show. Mugura et al teach that referring to Fig. 13, a user is able to readily view not only the broadcast audio and video, but also the electronic program guide of programming and the program description, a display information packet 1302 containing a description of the program broadcast may be displayed with the electronic program guide 1310, the display information packet 1302 also contains the program title 1350, the broadcast network identification 1352, the broadcast channel number 1354, the start and end times of the program 1356, and **the program rating 1358** (Fig. 13, col. 8, line 57 to col. 9, line 18). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the displaying the rating of the program as taught by Mugura et al. into Saito' system in order to provide the viewer with a ability to view program information that are related to programs in the television schedule, so that the user can judge from such information whether a program is worth viewing or recording.

Claims 13-14 are rejected for the same reason as discussed in claims 3-4, respectively.

Claim 16 is rejected for the same reason as discussed in claim 6.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Reynolds et al. (US Patent No. 6,563,515 B1) disclose program guide system with video window browsing.

Sciammarella et al. (US Patent No. 6,384,869 B1) disclose channel scan function and method of displaying scanned channels.


Davis et al. (US Patent No. 5,822,123) disclose electronic television program guide schedule system and method with pop-up hints.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang U. Tran whose telephone number is (703) 305-0090. The examiner can normally be reached on 8:00 AM - 5:30 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Miller can be reached on (703) 305-4795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TT
March 2, 2004


TRANG TRAN
PATENT EXAMINER